ACC NR: AP7001339

SOURCE CODE: UR/0386/66/004/011/0449/0453

AUTHOR: Kurnosov, V. D.; Magalyas, V. I.; Pleshkov, A. A.; Rivlin, L. A.; Trukhan,

V. G.; Tsvetkov, V. V.

TITIE: Self modulation of emission from an injection semiconductor laser

SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu.

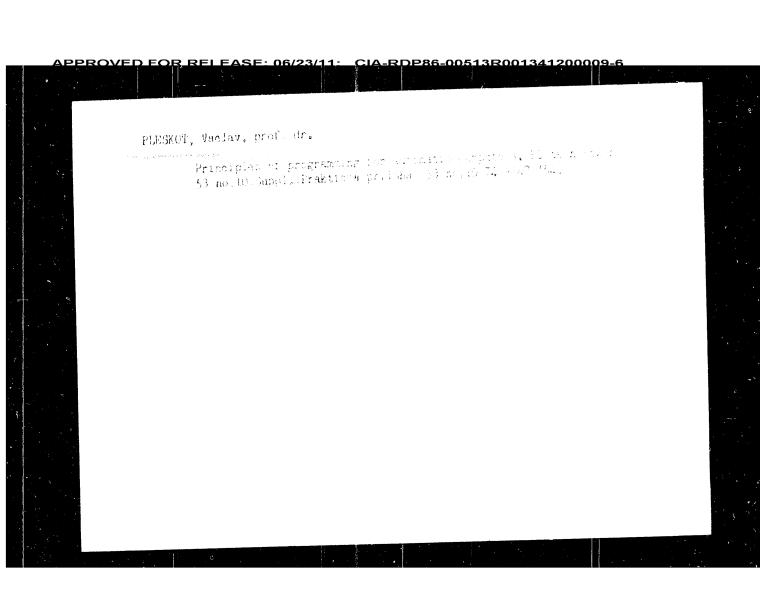
Prilozheniye, v. 4, no. 11, 1966, 449-453

TOPIC TAGS: semiconductor laser, laser emission, laser pumping, light modulation, pn junction, gallium arsenide

ABSTRACT: The authors show first, by analyzing the kinetic equations for the power of an injection-type laser, that self modulation of such a laser is possible if it is assumed that the injection laser has the same self-oscillating properties as an optically pumped one. They then report on the time structure of a GaAs laser emission, observed experimentally by means of an electron-optical converter (ECC) (M. N. Bustlov, Uspekhi nauchnoi fotografii no. 6, 76, 1959) with a time-scanned image (sweep duration ~2 nsec). The GaAs diode with a p-n junction produced by diffusion was excited by single injection-current pulses of 1 - 5 amp and 600 nsec duration, synchronized with the pulsed supply to the ECC. The image of the glowing active layer of the diode was, projected by microscope objectives from a vacuum liquid-nitrogen cryostat onto the photocathode of the ECC. The experiments showed clearly the emis-

Card 1/2

PLESHKOV, A. Lumbering Organized log rafting, Sel'. Stroi. 7 No. 2, 1950. 9. Monthly List of Russian Accessions, Library of Congress, July 195% Unclassified.



GORBACHEVSKIY, Viktor Andreyevich; LESHKEVICH, Andrey Ivanovich; MIKHAYLOVSKIY, Yuriy Vsevolodovich; SHESTAKOV, Boris Aleksandrovich; KEDNIKOV, I.N., retsenzent; MO.OZOV, K.P., retsenzent; KHASMAN, P.Ya., otv. red.; PLESKO, Ye.P., red.; CRECHISHCHEVA, Z.I., tekhn. red. [Fundamentals of lumbering and the operation of machines and mechanisms] Osnovy lesozagotovok i ekspluatatsiia mashin i me-V.A.Gorbachevskii i dr. Moskva, Goslesbumizdat, khanizmov. (MIRA 15:2) 1961. 319 p. (Lumbering-Machinery)

CHALAYA, Zinaida Akimovna; POMERANTSEVA, G., redaktor; PLESHKO, V. redaktor; BODROV, A., tekhnicheskiy redaktor. [Serov, the aviator; a biographical narrative] Letchik Serov; biograficheskaia povest'. Moskva, Izd-vo TaK VLKSM "Molodaia (MLRA 8:10) gvardiia", 1955. 213 p. (Serov, Anatolii Konstantinovich, 1910-1939)

Composition of nuclear-active...

-6/656/68/637/633/665/669 -811//8112

257, 1954). It is noted that the determination of K-remona, protons, and deuterons requires other methods. In the range of hev/c, these particles cannot be determined by measuring the ionization and consenter, or by the method applied here. Professor A. 1. Although is themself for valueble hints, and V. Sh. Kamalyan, ru. V. Goroskov, I. F. Kamabekev, B. N. Mofasyev, G. G. Matevonyan, a. V. Fatvakangan, G. M. Limarayan, K. A. Zhurohudyan, V. S. Trusyan, and B. A. Kamalyan for analytishese. There most recent references to English-language publications read an followar A. G. Barkov, V. Chamany, B. M. Hawkin, P. L. Jain, E. Lohiston, M. W. Teucher, M. Schein, Phys. Rev., 122, 617, 1961; I. B. Akkinson, W. N. Heas, V. Perez-Menez, R. W. Wallace, Phys. Rev. Lott., 7, 163, 1959; P. H. Barrett, Phys. Rev., 111, 1374, 1959; G. Bozoki, E. Fenyven, L. Janossy, Nucl. Phys., 24, 412, 1961.

ASSOCIATION: Fizicheskiy institut Akademii nauk Armyanskoy SSR (Physics Institute of the Academy of Sciences Armyanskays SSR)

SUBMITTED: July 28, 1961

Card 3/3

Composition of nuclear-active...

5/075/62/642/003/665/647 8117/8112

± 10, (acintillation counters). Alectrons, mesons, and the particles produced in the device were not taken into account. Two series of waterestents were carried out: (1) coincidences I + II + III + IV + V + AIII and recording of particles absorbed by the filters together with their recording products; (2) coincidences I + II + III + IV + V and recording secondary products; (2) coincidences I + II + III + IV + V and recording of all the particles. The results of both series could be and to determine the relative number of plant in the counter-ray particle flux. Results: In the momentum range of 1.8 - 22 lov/e, which contains T) - 9% of the particles with moments ≥ 1.8 3ev/c, negative particles committee about 3% of all the particles. In the momentum range of 1(3) - 7% Ev/c, about 3% of all the particles. In the momentum range of 1(3) - 7% Ev/c, the ratio X /V = 0.00 to 15 has about the ratio X

the ratio N /N = 0.90 ± 0.15 was obtained for the nuclear-active econicray particle flux. In the momentum range of 1.8 - 22 Bev/c, piens account
for 6 ± 2% of all the nuclear-active particles. On the anoumption that
also the five particles with unknown sign, observed above 1.6 dev/c, are
pions, the latter comprise not more than 10% of the nuclear-active occasicpions, the latter comprise not more than 10% of the nuclear-active occasicpions, the latter comprise not more than 10% of the nuclear-active occasicpions, the latter comprise not more than 10% of the nuclear-active occasicpions, the latter comprise not more than 10% of the nuclear-active occasicpions, the latter comprise not wore than 10% of the nuclear-active occasicpions, the latter comprise not wore than 10% of the nuclear-active occasicpions, the latter comprise not wore than 10% of the nuclear-active occasicpions, the latter comprise not wore than 10% of the nuclear-active occasicpions, the latter comprise not wore than 10% of the nuclear-active occasicpions, the latter comprise not wore than 10% of the nuclear-active occasicpions, the latter comprise not wore than 10% of the nuclear-active occasicpions, the latter comprise not work of the nuclear-active occasicpions, the latter comprise not work of the nuclear-active occasicpions, the latter comprise not work of the nuclear-active occasicpions, the latter comprise not work of the nuclear-active occasicpions, the latter comprise not work of the nuclear-active occasiopions, the latter comprise not work of the nuclear-active occasiopions, the latter comprise not work of the nuclear-active occasiopions, the latter comprise not work of the nuclear-active occasiopions, the latter comprise not work of the nuclear-active occasiopions, the latter comprise not work of the nuclear-active occasiopions, the latter comprise not work of the nuclear-active occasiopions, the latter occasion occasion occasion occasion occasion occasion occasion occasion occasion occasio

Card 2/3

PLESHKO, M.P.

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24.6700

Khrimyan, A. V., Avakyan, V. V., ha bindyan, N. A.,

AUTHORS:

Tegiyan, K. Sh., Plenko, M. P.

TITLE

Composition of nuclear-active cossic-ray particles with momenta above 1.8 Bev/c at an altitude of 3250 m above sea level. I

Zhurnal ekaperisental'inog 1 teoretleheakog fiziki, v. 42, PERIODICAL: no. 3, 1962, 669 - 674

TEXT: The nature and momentum appetra of nuclear-active cosmic-ray particles in the momentum range above 1.8 Bev/o were studied on Count Aragata (Armenia) at an altitude of 5250 m above see level in order to determine the relative number of pions in the particle flux. The laviation gations were made with a magnetic mass spectrometer of 6850 cc including a hodoscope, a thin-walled five-layer proportional counter, and five acintillation counters. The momenta from 2 to 20 Bey/c ware determined with a mean square error from 10 to 80%. The ionizing power of individual particles was determined with a mean error of 1 14% (gas counter) and

Card 1/3

PLESERO, M. P., KHRIMYAN, A. V., AVERNAN, V. V., NALMAN MAD, C. A.,

SGYAM, K. Sh., Azantiani, Te-be

"The Composition of the Flux of the Commic Ray Suchear-Active Particles of Homenta Higher than 1.8 Gev/c at the Altitude of 3250 m Above Sea Level."

report submitted for the intl. Conf. on Cosmic Mays and Farth Storm (1874) Kyoto, Japan 4-15 Sept. 1961.

KHRIMYAN, A.V.; AVAKYAN, V.V.; NALBANDYAN, N.A.; YEGIYAN, K.Sh.; PLESHKO, M.P. Composition of nuclear active particles in cosmic radiation at an altitude of 3250 m. above sea level with momenta above 1.8 Bev/: , But it. Zhur.eksp.i teor.fiz. 42 no.3:669-674 Mr 162. (MIRA 15%4) 1. Fizichoskiy institut AN Armyanskoy SSR. (Comic rays)

KHRIMYAN, A.V.; AVAKYAN, V.V.; NALBANDYAN, N.A.; YEGIYAN, K.Sh.; PLESKHO, M.P. Composition of a flux of nuclear-active cosmic ray particles in the region of pulses exceeding 1.8 Bev./c at an altitude of 3250 meters above sea level. Izv. AN SSSR. Ser. fiz. 26 no.6:722-727 Je 162. (MIRA 15:6) 1. Fizicheskiy institut Akademii nauk Armyanskoy SSR. (Cosmic rays)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200009-6 KHROMMAN, L.J. SMARYAN, W.J. L. L. J., Saries Kot Divis, Gam. Cappasition of a following round rective composes, who had at as a long to the sound of the soun 1. Forestoneskay in volume that a major modes we included a set φ such a compagnituding resources φ .

S/048/62/026/006/005/020 B125/B112

AUTHORS:

Khrimyan, A. V., Avakyan, V. V., Nalbandyan, N. A.,

Yegiyan, K. Sh., and Pleshko, M. P.

TITLE:

Composition of the nuclear active cosmic radiation particle current in the momentum range exceeding 1.8 Bev/c at

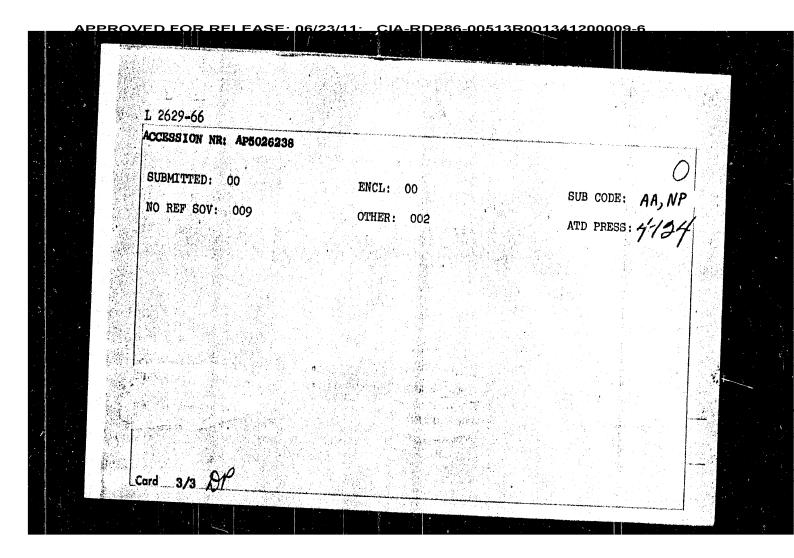
3250 m above sea level. I.

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26,

no. 6, 1962, 722 - 727

TEXT: The relative number of pions present in the current of nuclear active cosmic radiation particles was determined for momenta above 1.8 Bev, at an altitude of 3250 m on the Aragats mountain in Armenia. A magnetic mass spectrometer (6850 oe) was used, the measuring apparatus comprising also a five-layer gas proportional counter and five scintillation on counters. The electrons, the muons, and the particles produced in the measuring apparatus itself were screened out. The first series of measurements recorded mainly the particles absorbed by the filters and their secondary products. In the second series all particles were recorded. At p = 1.8 Bev, 65 positively charged particles were recorded, Card 1/5

Card 2/87



L 2629-66

ACCESSION NR: AP5026238

filled proportional counters. After passing through the magnetic field and the proportional counters, the secondary particle entered an "interaction hodoscope," consisting of a layer of polystyrene, three thin (~15 g/cm2) layers of lead, and four thick (43 g/cm2) layers of copper, with counter trays between them. The data are presented graphically as momentum versus ionizing power plots for the particles that exhibited different specific types of behavior in the interaction hodoscope. From the data presented it is concluded that 15% of the events recorded by a detector surrounded by 10-50 g/cm² of heavy metal will be shower events, that the probability of producing a penetrating shower increases with increasing momentum of the initiating particle, that a pion with momentum between 0.1 and 0.7 Bev/c is from two to four times more likely to produce a shower than is a proton of the same momentum, and that it will be ddifficult to identify primary cosmic ray electrons or γ-rays by observing the showers they produce unless the secondary particles are identified. "The authors express their gratitude to G.V. Khrimyan for discussing the results and for valuable remarks, and to G.G. Matevosyan, E.V. Patvakanyan, G.M. Smsaryan, V.S. Truzyan, and A. A. Oganesyan for assistance with the work." Orig. art.

ASSOCIATION: none

[15]

Card 2/9

L 2629-66 EWT(1)/EWT(m)/FCC/T/EWA(h) IJP(c) GW

ACCESSION NR: AP5026238

UR/0048/65/029/010/1956/1961

AUTHOR: Khrimyan, A.V.; Avakyan, V.V.; Pleshko, M.P.; Vartanyan, T.G.

TITIE: Investigation of low-energy charged particles with the Cosmos 12, Cosmos 15, and Electron 2 satellites Report, All-Union Conference on Cosmic Ray Physics held at Apatity 24-31 August 19647

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 10, 1965, 1956-1961

TOPIC TAGS: primary cosmic ray, secondary cosmic ray, cosmic ray shower, proton interaction, pi meson

ABSTRACT: The authors, continuing earlier work of one of them (Zh. eksper. i teor. fiz., 35, 1076, 1958), have investigated the production of showers in matter by high energy protons and pions in order to acquire data for estimating the secondary background due to the surrounding material in rocket and satellite measurements of primary cosmic radiation. The measurements were performed at Aragats at an altitude of 3200 m above sea level. The investigated protons and pions were produced in lead by cosmic ray neutrons; their momenta were determined with the aid of a magnetic field, and their ionizing powers were measured with a sequence of five gas-

Card 1/2

PLESKO, Ivan; NOVAK, Ladislav

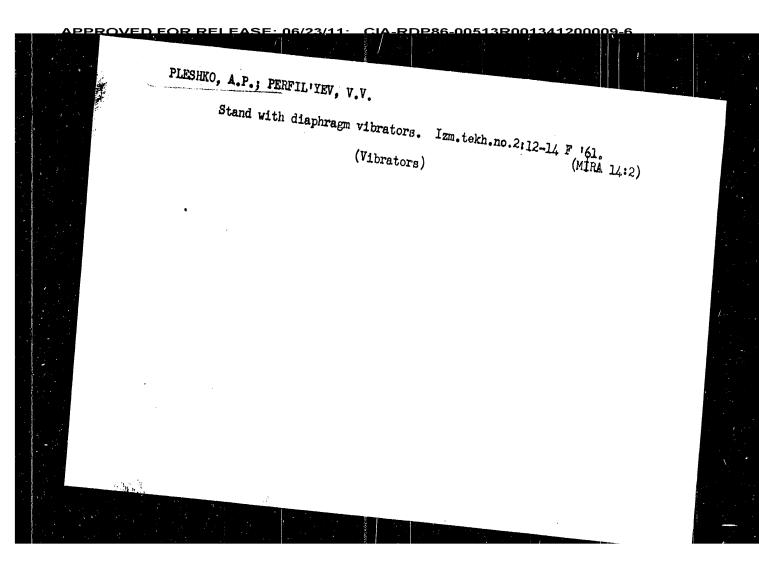
Significance of the properdin system in the toxic effect of sera on protozoa. Biologia 15 no.9:685-689 '60. (EEAI 10:4)

1. Institut fur Mikrobiologie und Epidemiologie und Institut fur Biologie der medizinischen Fakultat der Komensky-Univerzitat, (PROPERDIN) (PROTOZOA) (SERUM)

BUKOVSKIY, L.E.; SLUTSKIY, V.D.; PLFSKACHEV, A.P.; MITYUREV, M.N. Developing the method for obtaining lithium fluoride. Prom. khim. reak. i osobo chist. veshch. no.1:16-17 '63. (MIRA 17:2) PLESHKO, I. High yields of winter wheat. Nauka i pered.op.v sel'khoz. 9 no.1:40-41 Ja '59. (MIRA 13:3) 1. Brigadir polevodcheskoy brigady kolkhoza "Vyatsa noue," Bel'tskogo rayona Moldavskoy SSR. (Wheat)

. KHRIMYAN, V. V. AVAKYAN, M. P. PLESHKO, G. V. KHRIMYAN Composition of Cosmic Radiation Flux of Nuclear-active Particles at 3250m above report submitted for the 8th Intl. Conf. on Cosmic Rays (IUPAP), Jaipur, India, APPROVED FOR RELEASE: SAZONOVA, N.K., PLESHKO, G.S. Investigating some types of raw ceramic materials from the Korean People's Democratic Republic. Trudy LTI no.57:30-49 159. (MIRA 13:8) (Korea, North-Ceramic materials)

KHRIMYAN, A.V.; AVAKYAN, V.V.; DELIMBRO, M.D.; FARTERDAN, C.C. Concration of air photocraphy \mathcal{H} -mass of and provided contracts of 0.1 to 20 Bev./c in thin pinter of a substance. Law, while its Section 29 no.10:1956-1961 0 165. (MIRA 1 (MIRA 18:10)



SOV-115-58-3-22/41

AUTHORS:

Pleshko, A.P. and Perfil'yev, V.V.

Tuning-fork Vibrostand (Kamertonnyy vibrostend)

TITLE:

Izmeritel'naya tekhnika, 1958, Nr 3, pp 57 - 59 (USSR)

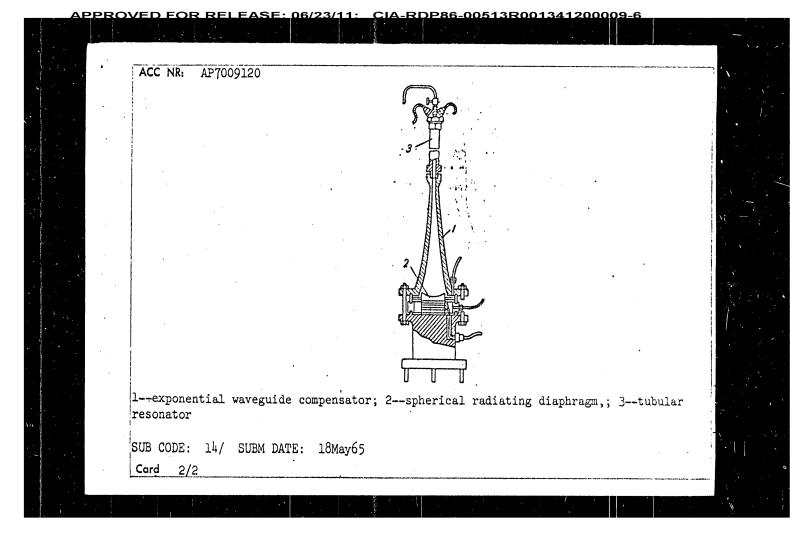
PERIODICAL: ABSTRACT:

The existing vibrostands develop vibration acceleration of no more than several dozen \boldsymbol{g} , whereas in tests of powerful motors or accelerometer transmitters and indicators the high-frequency vibroaccelerations often reach many hundreds

9. The described new special tuning-fork vibrostand, consisting of 8 tuning forks, permits dynamic calibration of accelerometer transmitters and indicators as well as durability tests on not too heavy machine parts and components for work in conditions up to 500 g at fixed pre-selected frequencies. Detailed description of design is given and

card 1/2

PLESHKO, A.P.; PERFILITEV, V.V. Unit for dynamic testing of pressure pickups. Izm.tekh. no.7:17-19 J1 '61. (M) (MIRA 14:6) (Strain gauges)



<u> APPROVED FOR RELEASE: 06/23/11:__CJA-RDP86-00513R001341200009-6</u>

ACC NR: AP7009120

SOURCE CODE: UR/0413/67/000/003/0110/0110

INVENTOR: Pleshko, A. P.; Kashirin, Yu. N.; Pankusov, N. A.

ORG: None

TITLE: A hydroacoustic pulsator for checking pressure gauges. Class 42, No. 191169

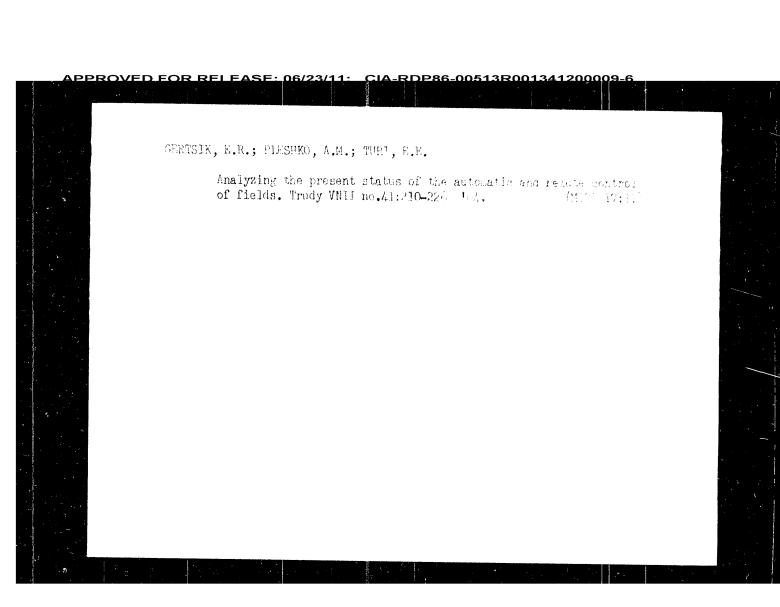
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1967, 110

TOPIC TAGS: resonator, waveguide, pressure gage, quality control, piezoelectric

ABSTRACT: This Author's Certificate introduces a hydroacoustic pulsator for checking pressure gauges. The device contains a base which holds a piezoceramic transducer and a working chamber filled with fluid. To increase the amplitude and frequency of the vibrations, the working chamber is made in the form of an exponential waveguide concentrator with the broad end connected to a spherical radiating diaphragm while the narrow pickups.

Card 1/2

UDC; 531.787.913



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200009-6 VOLKOVA, G.A.; BALASHOVA, T.V.; BUCHEVA, V.N.; PLESHKO, A.M. Economic efficiency of remote control methods in oil production:
Trudy VNII no.22:136-149 *59. (MIRA 15)
(Oil fields--Electronic equipment) (Remote control) (MIRA 15:4) VOLKOVA, G.A.; PLESHKO, A.M. Economic efficiency of using electric sinking pumps. Trudy VNII no.22:126-135 '59. (Mika 15:4) (Oil well pumps)

SEREBRYAKOV, Aleksey Alekseyevich; YANKOVSKIY, Konstantin Artem'yevich; PLESHKIN, Mikhail Mikhaylovich; LEVITSKIY, V.S., nauchnyy red.; BABULIN, N.A., nauchnyy red.; BARANOVSKIY, M.A., nauchnyy red.; KOBRINSKAYA, M.V., red.; PERSON, M.N., tekhn. red. [Mechanical drawing] Cherchenie. 6., ispr. izd. Moskva, Vses. uchebno-pedagog.izd-vo Proftekhizdat, 1961. 225 p. (MIRA 14:11) (Mechanical drawing-Study and teaching)

CIA-RDP86-00513R001341200009 PLESHKIN, Mikhail Mikhaylovich; PLESHKIN, Leonid Mikhaylovich; BOBIKOV, P.D., nauchn. red.; HYCHEK, 7.1., red. [Joints of wooden articles; a collection of drawings] Soedinenija stoliarnykh izdelii; sbornik chertezhei. Moskva, Vysshaia shkola, 1965. 106 p. (MIRA 18:4)

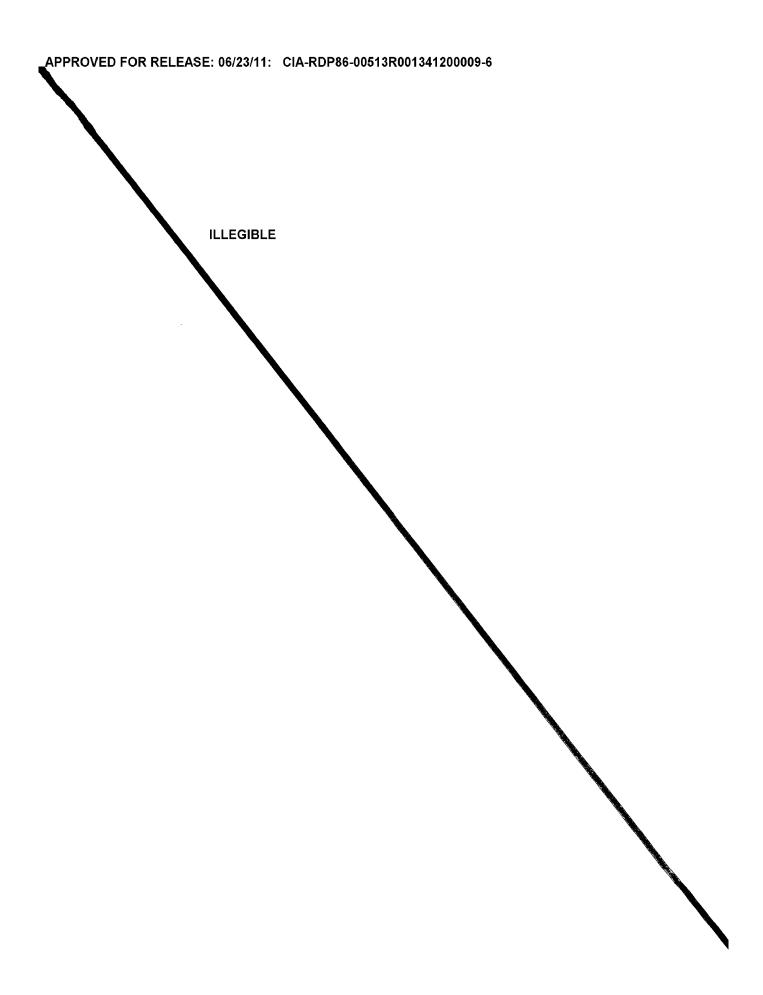
Protecting drawings from soiling. Prof.-tekh. obr. 12 no.5:
29 Ny '55. (MIEA 8:8)

1. Prepodavatel' tekhnicheskogo uchilishcha No.6 (Moskva)
(Drawing room practice)

PLESHKIN, Mikhail Mikhaylovich; PLESHKIN, Leonid Mikhaylovich; BOBIKOV, P.D., nauchn. Ted.; RYCHEK, T.I., red. [Joints of wooden articles; a collection of drawings] Soedinenije stoliarnykh izdelii; sbornik chertezhei. Moskva, Vysshaia shkola, 1965. 106 p. (MIRA 18:4) "PLESHKIN, L. *Course in mechanical drawing* by S.K.Bogoliubov, A.V.Voinov.

Reviewed by L.Pleshkin. Mashinostroitel* no.2:47 F *63. (MIRA 16:3)

(Mechanical drawing) (Bogoliubov, S.K.) (Voinov, A.V.)



Plestictseva Je A. CHIGIRIK, Ye.D., PLASHIVESEVA, Ye.A. Controllin g ticks in areas where tick-borne encephalitis is endemic. Med.paraz. i paraz.bol.supplement to no.1:59-60 '57. (MIRA 11:1) 1. Iz entomologicheskogo otdeleniya Kemerovskoy oblastnoy protivomolyariynoy stantsii.
(KAMEROVO PROVINCE--TICKS)

VIGDORCHIK, M.Ye.; PLESHIVTSEVA, E.S.; CHEREMISINOVA, Ye.A. Marine interglacial deposits in the Il'men' Depression. Dokl.

AN SSSR 141 no.5:1167-1170 D '61. (MIRA 14:12 (MIRA 14:12) 1. Predstavleno akademikom V.N. Sukachevym. (Il'men' Lake region-Geology, Stratigraphic)

ACC NR. AP7001528 tool greatly improves the surface finish and increases the microhardness of the surface layer. [MS] SUB CODE: 11, 13/ SUBM DATE: none/ ATD PRESS: 5110

CC NR: AP7001528

SOURCE CODE: UR/0193/66/000/012/0005/0006

AUTHOR: Khvotostukhin, L. A.; Pleshivtsev, N. V.; Bibayev. V. N.

ORG: none

TITLE: Machining of 1Kh18N2AG5 stainless steel

SOURCE: Byulleten' tekhniko-ekonomicheskoy informatsii, no. 12, 1966, 5-6

TOPIC TAGS: stainless steel, high strength steel, chromium, nickel, manganese steel, nitrogen containing steel, steel mechanical property, steel machining/IKhl8N2AG5

ABSTRACT: The Moscow Institute of Aviation Technology has developed low-nickel high-strength stainless lKhl8N2AG5(EP-26) steel as a substitute for lKhl8N1OT[AISI321] steel. The lKhl8N2AG5 steel, in which a great part of the nickel is replaced by manganese and nitrogen, belongs to the austenitic-ferritic class and contains more than 70% austenite. The steel has high mechanical properties, a tensile strength of 117 kg/mm², a yield strength of 50 kg/mm², an elongation of 30%, an HB hardness of 240 kg/mm², and quite satisfactory machinability. It is recommended for aircraft engines and other industrial uses. Sintered carbide-tipped tools are recommended for machining the steel. Sintered T15K6 and VK8 tips are recommended for rough machining and T15K6 tips for semifinished and finished machining. A satisfactory surface finish is produced at cutting speeds above 40 m/min. Subsequent burnishing with a diamond

Card 1/2

UDC: 621.9: 669.14.018.8

Dependence of the sputtering ... \$\(\) \(

the critical values of j for Si, A and Kr are equal to 6.5, 6.4 and 0.3 respectively. It is shown that the sputtering coefficient S is also independent of the target temperature (up to 680 °C). The sputtering coefficient increases as the angle of incidence α is increased from a value of about 9 at $\alpha=0^{\circ}$ to over 20 at $\alpha=70^{\circ}$. In this range $S_{\alpha}=S_{0}$ sec α , where S_{0} is the sputtering coefficient for normal incidence of ions at the target surface. The difference in S for ion energies of 10 KeV and 30 KeV is not large. There are 5 figures.

SUBMITTED: May 5, 1961

Card 3/3

36966

s/141/62/005/001/014/024 E039/E135

26.2312

AUTHOR:

TITLE:

Dependence of the sputtering coefficient for copper on the target temperature, current density and angle of incidence of argon ions with energies of 10 to

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika, v.5, no.1, 1962, 136-143

Previous papers on this subject have provided contradictory information; hence the work described in this paper was undertaken. The dependence of the sputtering TEXT: coefficient S on the target temperature, ion current density and angle of incidence were investigated by means of an ion gun. It is shown that the sputtering process is greatly influenced by the formation of a film on the target which consists of oxides and other chemical compounds. It is possible to remove this film by decreasing the pressure of the residual gas to ~10-10 mm Hg or alternatively by sputtering. As it would Card 1/3

YURASOVA, V. Ye.; PLESHIVISEV, N.V.; OREAHOV, I.V.

Directed emission of particles in the sputtering of copper single crystals by ion beams with energies up to 50 Kev. Znur. eksp.i teor.fiz. 37 no.4:966-972 0 '59.

(MIRA 13:5)

1. Moskovskir gosudarstvennyv universitet.

(Sputtering (Physics)) (Copper crystals)

PLESHIVTSEV, N.V. Measuring current density in ion beams by means of cathode sput-tering. Prib. i tekh. eksp. 6 no.1:163-164 Ja-F '61. (MIRA 14:9) (Ion beams--Measurement)

PLESHIVTSEV, N.V. Dependence of the diffusion coefficient of copper on the target temperature, current density, and incidence angle of argon ions with energies of 10-30 kev. Izv.vys.ucheb. zav.; radiofiz. 5 no.1/136-1/3 162. (MIRA) (MIRA 15:5) (Thermionic emission) (Argon) (Copper)

s/117/62/000/008/004/005 1007/1207

AUTHORS: Metelkin, I.V., Metelkin, V.V., and Pleshivtsev, N.V.

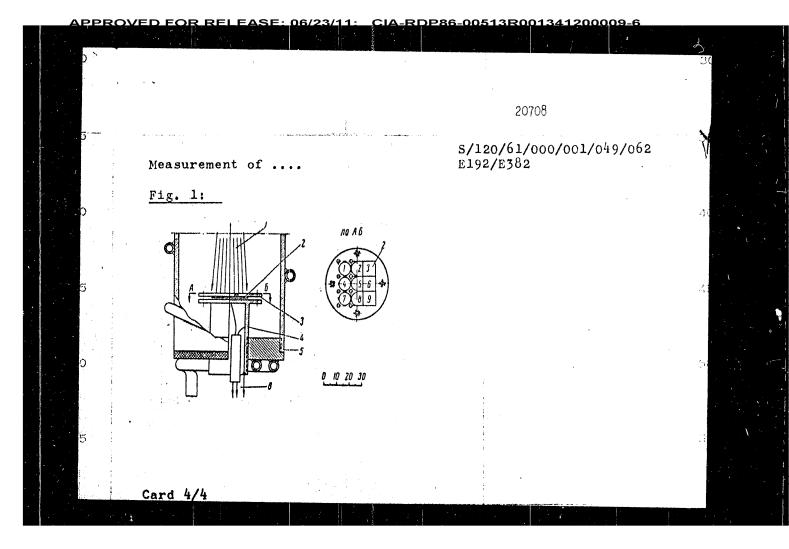
TITIE: Machining output in ultrasonic cutting

PERIODICAL: Mashinostroitel', no. 8, 1962, 33-34

TEXT: A study is presented of the factors affecting machining output in ultrasonic cutting, and experimental results are reported. Graphs showing the dependence of machining output on the abrasive-grain size, the ultrasonic-oscillation and the amplitude, were plotted on the basis of these results. Increasing the abrasive grain-size was found to augment considerably the machining output. The graphs for ultrasonic cutting, although plotted only for the cutting of hard alloys and glass, may also be used for other materials. Appropriate conversion coefficients (given in this paper) should be used. There are 3 figures and 1 table.

Card 1/1

METELKIN, I.V.; METELKIN, V.V.; PLESHIVTSEV, N.V. Efficiency of ultrasonic cutting. Mashinostroitel' Ag '62. no.8:33-34 (MIRA 15:3) (Ultrasonic metal cutting)



20708

S/120/61/000/001/049/062 E192/E382

Measurement of

current was determined by measuring the heat transfer through the walls of the copper cylinder. The beam of the hydrogen ions was produced by an arc source provided with a double plasma compression (Ref. 1) and a single electrostatic lens (Ref. 8). The experimental conditions were as follows: accelerating voltage 30 and 39 keV, current 8.6 and 7.8 mA, duration of the bombardment 210 and 145 min and target temperature 250 °C. From the experiments it was found that the weight of the sputtered copper, referred to the unit area, follows the shape of a Gaussian curve as a function of the radius. It is also pointed out that the cathode sputtering can be used for measuring the intensity of non-charged atomic particles and the ion component of plasma beams. The author thanks B.K. Shembel for his interest and help, S.N. Popov and D.V. Karetnikov for supplying the ion gun and A.M. Rodin for valuable remarks. There are 2 figures and 8 references: 6 Soviet and 2 non-Soviet.

SUBMITTED: December 14, 1959

Card 3/4

20708

s/120/61/000/001/049/062 E192/E382

Measurement of

where i is the current density of the ions in mA/cm^2

m is the mass of the sputtered substance in mg/cm^2 ,

A is the atomic weight of the material of the target,

is the sputtering coefficient (atoms per 10n), and

is the time in seconds.

The measurement of the ion current density in a hydrogen ion beam was carried out by means of an ion gun described in Ref. 7. The details of the target are shown in Fig. 1. were 9 targets made of copper foil having dimensions of 10 x 10 x 0.1 mm. These were fixed at the bottom of the copper cylinder 4 (see Fig. 1) by means of the disc 3, disc had 9 holes of 8.5 mm in diameter and 16 holes with a diameter of 3.3 mm. The ion beam passed through the holes and hit the targets and sputtered them. The targets were weighed by means of a micro-balance with an error of $0.02~\mathrm{mg}$ were situated beyond the focus of the beam at a distance of 15 cm. The temperature of the targets was measured by means of a thermocouple 6 and the total ion

Card 2/4

20708

s/120/61/000/001/049/062 E192/E382

26,2312

Pleshivtsev, N.V. AUTHOR:

Measurement of the Current Density in lon Beams by TITLE:

Means of Cathode Sputtering

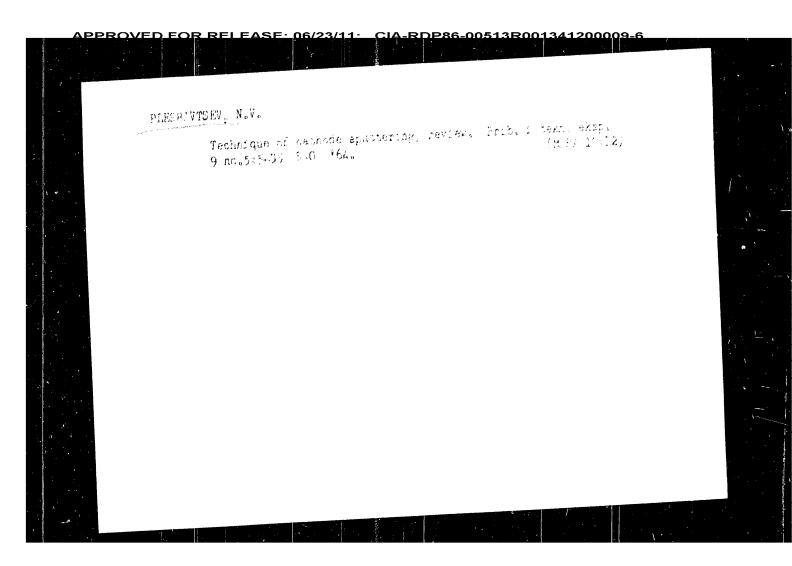
Pribory i tekhnika eksperimenta, 1961, No. 1, PERIODICAL: pp. 163 - 164

The sputtering coefficient of metals (the number of the atoms of a target sputtered by a single ion) is almost independent of the presence of impurities or the thermal independent of the presence of impartment of the surface processing of the metal (Ref. 4) and provided the surface processing of the metal (Ref. 4) and provided the surface temperature of the target is not higher than 300 or 400 the coefficient is also independent of the ion current density (Refs. 4-6). These circumstances give the possibility of employing the sputtering in the measurement of the absolute current densities in ion beams and plasma. For this purpose, it is necessary to determine the weight of the sputtered substance ejected by a unit area of the target in unit time. This is expressed by:

i = 96500 m/tAS

(1)

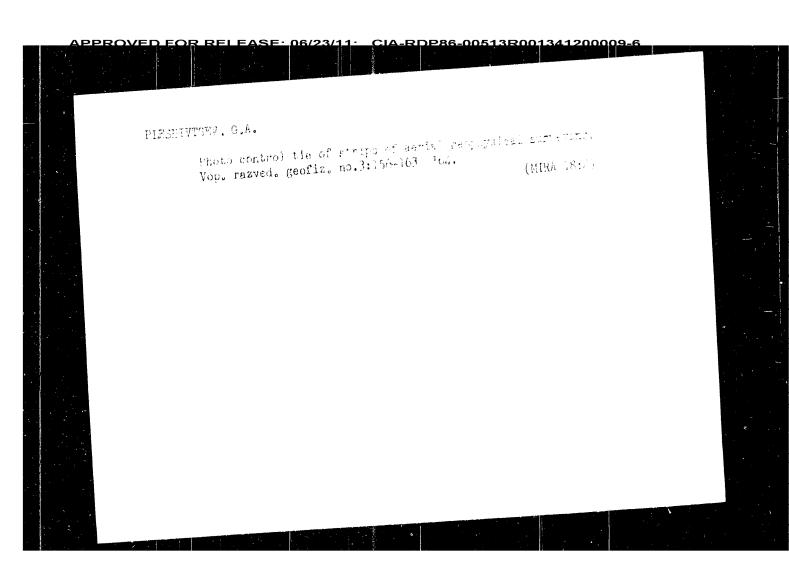
Card 1/4

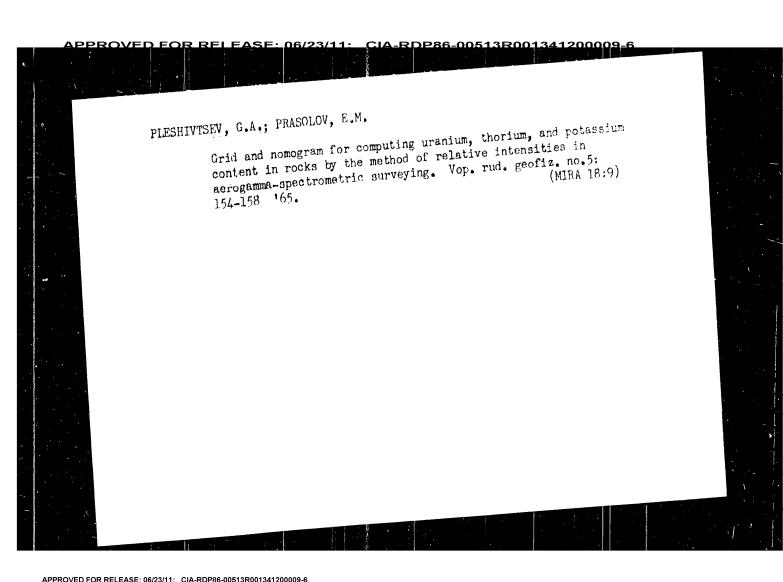


PLESHIVTSEV. N., nauchnyy sotrudnik. Observing the motion of atoms. IUn.tekh. 2 no.11:31-32 N 57. (MIRA 10:11) 1. AN SSSR. (Atoms)

ACCESSION NR: AT4049237 character of different landmarks is discussed. Office analysis and identification procedures are described. Using the reconnaissance survey method the accuracy of determinations of the horizontal position of the alreraft over the land is determined for the most part by errors arising in plotting the center of the photograph on the topographic base and in transfer to office maps. This error should not exceed 20.5 mm (on a l:100,000 map this error is equal to 250 m). Other errors are associated with camera tilt and influence of relief. Mean square error in plotting the center of the photograph on the map is ±60 m. The described method for determining the horizontal position of a survey aircraft is valuable in reconnaissance surveys for finding mineral deposits and in reconnaissance surveys for finding mineral deposits and in reconnaissance It is particularly effective in large-scale surveys from flight altitudes up to 100 m. Orig. art. has: I formula, 4 figures and 2 tables. ASSOCIATION: none SUB CODE: ES ENCL: 00 SUBMETTED: 00 OTHER: 000 NO REF SOVE 008 Card 2/2

LUP(4)/SSD/BSD/AFGL/ASDLA 1-5/AFETR/RAEM(1)/ gin30-65 | \$07(2)/560(5/-3/17 \$/3109/64/000/003/0156/0163 (C) (C) (C) ACCESS ION THE NTLONGEST BH AUTHOR: Plasifyteev, G. L. TITLE: Photogrammetric control of agrogeodetic survey flight lines SOURCE: Hoscow: Vsesovujnyky nauchno-issledovateliskiy institut razvedochnov qeafiziki. Voprosyk razvedochnov geofiziki, ho. 3, 1964, 156-163 TOPIC TAGS: geodesy, photogrammetry, photogrammetric control, aerial photography, aerial camera, geological prospecting ABSTRACT: The author discusses the photogrammetric control of flight lines and anomalous areas. Photogrammetric control of flight lines consists of photographing of landmarks, laboratory processing of films and photographs and office processing of photographs, including identification of landmarks and compilation of maps of flight lines. Nost of the material presented indicates that the method is based largely on standard aerial survey practice. Landmarks were photographed with the serial cameras AFA-TE-55 and AFA-37; the relative advantages of different cameras for use in reconnaissance surveys are discussed. An apparatus for installation of aerial cameras aboard survey alroraft is described and illustrated. The author stresses that the aircraft navigator can easily service the cameras and there is no need to add an extra member to the crew for this purpose. The Card 1/Z





TIRRITATIONA, F. A., NATHICH, G. T., CHICARIE, E. C., CHICAR, N. F. "Frombylactic methods and local and location of ticket one were paint to gone areas of the kemerove object." Page 82 Desystome soveshooning of parazitologicheskim problems i priednocción von boleznyem. 27-29 Oktyabnya 1050 a. (Terth Scherence on Farasitalousca) Problems and Diseases with Natural Frei 20-20 October 1950), Modern Leningrad, 1950, Academy of Medical Sciences Hook and Academy of Sciences Hook and Academy of Sciences USAR, No. 1 254pp.

METELKIN, V.V.; METELKIN, I.V.; PLESHIVTSEV, N.V. Tools for ultrasonic machining. Mashinostroitel' no.12:16
D '64. (MIRA 18:2) CURITER, 1.5.; PERCHANTERY, 1.0., GORDONOR, 1.7. Geothermal conditions of the Satur complex metal deposit to the Northern Cautasum, lyvivyout hebizaris geoth & caze, 8 and 103-131 F 165. 1. Severo-Kavrazsk'y gornometallargieneskiy institut.

ACC NR: AP7002170

SOURCE CODE: UR/0089/66/021/006/0511/0512

AUTHOR: Subbotin, V. I.; Ivanovskiy, M. N.; Arnol'dov, M. N.; Shmatko, B. A.; Pleshivtsev, A. D.

ORG: none

TITLE: Control of the content of oxygen and hydrogen impurities in molten sodium by measuring the electric resistance

SOURCE: Atomnaya energiya, v. 21, no. 6, 1966, 511-512

TOPIC TAGS: liquid metal, resistivity, hydrogen, oxygen, gas analysis

ABSTRACT: In view of the conflicting data in the literature concerning the dependence of the electric resistance of liquid sodium on its oxygen content, the authors measured with a dc double bridge the resistivity of sodium at 350C as a function of the oxygen and hydrogen concentrations. The hydrogen and the oxygen were introduced into the circulating liquid sodium in gaseous form. The amount of introduced gas was determined by measuring its pressure in a vessel of known volume kept at a given temperature. The chemical compositions of the sodium, oxygen, and hydrogen employed are given. The results show that oxygen does not change the resistance of liquid sodium, accurate to 5 x 10⁻⁸ ohm, but the resistivity does change linearly with increasing hydrogen concentration. Consequently, by measuring the electric resistivity of liquid sodium it is possible to monitor the hydrogen content with accuracy 3 x 10⁻⁵% by weight, but the oxygen content cannot be monitored. Orig. art. has: 1 figure and 1 table.

SUB CODE: 20/ SUBM DATE: 23Jun66/ ORIG REF: 001/ OTH REF: 003

Card 1/1 // UDC: 621.039.534.6

PLESHIKO, D. I.

Industrial waste used for feed stuffs in Tajikistan Sralinsbad, Tadznizokoe

1. Feeding and feeding stuffs
2. Factory and trade waste.

PLESHEYEV, I.S.; SHAPOV, A.I.; SHLEZINGER, A. Ye. Structures of eastern Mangyshlak and adjacent territory in the Ustyurt Plateau. Biul. MOIP Otd. geol. 36 no.1:40-58 JarF '61. (MIRA 14:5) (Mangyshlak Peninsula-Geology, Structural) (Ustyurt Plateau-Geology, Structural)

CIA-RDP86-00513R001341200009-6 PLESHEV, A.; DONSKOY, N. For the consumer in curel cross, hadic to built a laid. 1. Nachal'nik Glavnogo upravleniya po tergovie prospektennyat tovarami Soyuza potrebitel'akikh obshchenty ESFDE for the new).

YUGOSLAVIA/Organic Chemistry. Natural Compounds and Their Synthetic Analogs.

Abs Jour; Ref Zhur-Khimiya, No 21, 1958, 70930.

grams of V, 20 grams of PCL; and 40 ml of CCly is heated. After the exothermic reaction has ceased, the mixture is boiled for one hour, the solvent and POCL; are vacuum distilled, and to the reaction product a 10% aqueous NaOH solution is added. The VI is steam distilled, and is isolated in a 62% yield, b.p. 107°C/15 mm, n 20° 1.4491, d 20° 0.8483, 20° 8.30°, 20° 9.78°. 6.6 grams of I is reduced to II with lithium aluminum hydride (2 grams) in ether (20° C., 5 hours); yield, 94%, b.p. 110°C/ 20° 10 mm, n 20° 1.4558, d 20° 0.8558, 20° 20° + 4.6° 20° 20° + 5.37°.

To a solution of 5 grams of II in 20 ml of petroleum ether and 2.4 ml of pyridine is added 5 grams of PBr?

Card : 4/5

40

Card : 5/5

+ 4.97°, [a 10 + 2.42 . 120 Baum -

Card : 2/5

39

YUGOSLAVIA/Organic Chemistry. Natural Compounds and Their Synthetic Analogs.

G

Abs Jour: Ref Zhur-Khimiya, No 21, 1958, 70930.

grams of SOCl₂ in 200 ml of petroleum ether are boiled for two hours. The chloro anhydride of I thus is obtained (50% yield, b.p. 75-76°C/2 mm) is dissolved in ether and the solution is saturated with ammonia. V is formed in a 30% yield in respect to I, m.p. 82-83°C (from petroleum ether). When purified SOCl₂ is used, the yield of the chloro anhydride of I is as high as 90%. V can also be prepared by an alkaline hydrolysis of VI. When I is boiled with SOCl₂ (without any solvent), followed by the action of ammonia, the (+)-amide, 2,6-dimethyl-2-chloro-heptane-7-acid is formed, m.p. 109-110°C (from petroleum ether), [2,7,2,6] + 7.6°(1 10 cm; 0.5 grams in 10 ml of alcohol). A mixture of 12.5

Card : 3/5 *

YUGOSLAVIA/Organic Chemistry. Natural Compounds and Their
Synthetic Analogs.

Abs Jour: Ref Zhur-Khimiya, No 21, 1958, 70930.

Author: Lukesh, Zobachova, Pleshek.
Inst:
Title: The Absolute Configuration in the Citronellal Series.

Orig Pub: Croat. chem. acta, 1957, 29, No 3-4, 201-205.

Abstract: The authors synthesized the following compounds using (+) citronellic acid (I) as the starting material: (+) citronellol (II), (-)-citronellyl bromide (III), (+)-2,6-dimethyloctene (IV), (+) citronellamide (V), (-)-citronell nitrile (VI) methyl ester of I.

Applying a known absolute configuration of citronellal, the authors established that I-III, V and

Card

: 15

SOV/110-58-9-7/20 Voltage Stabilization of Generators with Permanent-magnet Fields

variation of the flux in the air gap is not greater than 1.5:1. Otherwise sub-magnetisation should be combined with some degree of capacitance compensation.

There are 1 table, 9 figures, and 4 Soviet references.

SUBMITTED: January 24, 1958

- 1. Generators--Performance 2. Generators--Equipment
- 3. Voltage stabilizers--Applications 4. Generators--Control systems

Card 5/5

SOV/110-55-9-7/20 Voltage Stabilization of Generators with Permanent-magnet Fields

of sub-magnetisation (see Fig 8). The maximum and minimum sub-magnetisation currents and the regulation characteristics can then be plotted, as shown in Fig 9. Calculations are then made of the time constant of the sub-magnetisation winding. The generator efficiency is little affected by sub-magnetisation at full load, but at no-load sub-magnetisation accounts for 5 - 8% of the rated output power. The use of sub-magnetisation has disadvantages; the special winding is difficult to manufacture; the air-gap flux changes relatively little for quite a large change in sub-magnetisation. A generator with sub-magnetisation is somewhat larger than one without it. It is recommended to use sub-magnetisation when the number of poles does not exceed eight and the ratio of

Card 4/5

367/110-58-9-7/20

Voltage Stabilization of Generators with Permanent-Ragnes Fields

in the air gap. These distortions were measured with a harmonic analyser in two particular generator; and the results are tabulated. Oscillograms of armature flux and air gap induction for the two michines are reproduced in Figs h and 5. Both curves contain appreciable even harmonics, but the output roltage of the generator is scarcely affected thoreby because of the way the windings are connected. Output phase-voltage wave-shapes, with and without sub-magnetisation, are reproduced in Fig. 6: with sub-magnetisation, the third harmonic is up to 24%, the fifth, seventh and ninth harmonics are 1,, 2, and 3.5% The third harmonic has no effect in threerespectively. phase machines, and can be suppressed under favourable circumstances, in single-phase machines. A simplified method is then given for calculating the no-load characteristics with sub-magnetisation; the general procedure is much the same as when sub-magnetisation is not used. The armature induction wave-shape is found in the usual way, and the family of curves of induction as a function of 3.9. Card 3/5 ampere-turns is determined for a number of different values

307/110-56-5-7/20

Voltage Stabilization of Generators with Permanent-magnet Fields

magnetic circuit to control the leakage flux according to the lead, but the accuracy of voltage control obtained in this way is not high. Again, there are several ways of controlling the generator output voltage by mechanically altering the areature magnetic circuit, but machines of this kind are very condicated to manufacture. A new method of voltage stabilization for permanent-magnet generators employs d.c. sub-magnetisation with a distributed annular winding of the form depicted in Fig 1. If this winding is excited with d.c., a flux is set up in the armature which elters the main flux of the machine. The sub-magnetisation current is least when the generator is fully loaded, and vice versa. Control may be manual or automatic. The method of calculating the sub-magnetisation current is given. The first step is to determine the no-load voltage of the generator graphically, as shown in Fig 2. The method of determining the output voltage as a function of the sub-magnetising direct current is then explained, with reference to Fig 3. The calculations are complicated by the fact that sub-magnetisation distorts the wave-shape of the armature flux and also distorts the magnetic induction and distribution

Card 2/5

SOV/110-58-9-7/20

AUTHORS: Al'per, N. Ya. (Candidate of Technical Science) and

Pleshchunov, N.N. (Engineer)

TITLE: Voltago Stabilization of Generators with Permanent-

magnet Fields (Stabilizatelya napryazheniya generatorov

s postoyannymi magnitami)

PERIODICAL: Vestnik Elekpropromyshlennesti, 1958, Nr 9, pp 29-34 (USSR)

ABSTRACT: The application of generators with permanent-magnet fields is restricted by difficulties of voltage control. The generator voltage can be stabilised either by special stabilisers or by altering the characteristics of the machine according to the lead, temperature or other conditions. This latter method is usually semewhat imperfect. Series or parallel capacitor compensation can be used: with the former the voltage remains steady to within 3% over the entire load range unless the power factor is high in which case the voltage variation is up to 5%. Similar results, though somewhat better at high power factor, can

be obtained with parallel capacitor compensation. Capacitor compensation gives no temperature correction and is bulky and heavy. Saturating wedges can be fitted in the rotor

Percent/000/001/015/023 と1つも38455 Selection of the Optimum Parameters of ParameterMagnet Rotors inadvisable to make the depth from the pale root to the central bore more than half the pole width. The utilization of the magnet is greatest for a certain ratio of pole width to height which depends on the number of poles, the magnetic permeability and the method of treatment of the magnet. The optimum value of the ratio is best determined from empirical curves. Test results are given for a generator with permanent-magnet field, and the importance of correctly selecting the type of alloy for the retor is explained. Certain corrections that may be introduced into the calculations to make the selection of geometry more accurate are then briefly There are 10 figures, 3 tables and 2 Soviet references. described. June 22, 1960 SUBMITTED: Card 4/4

5/110/61/000/001/015/023 E194/E455

Selection of the Optimum Parameters of Personent-Magnet Rotors

The rotors were of 90 cm outside diameter and 45 mm long with 4, 6, 8 and 12 poles. Corves of the various utilization factors were plotted as functions of the main geometrical characteristics. The utilization factor of the magnet depends on the properties of the magnetic material, i.e. the Different alloys were used having permeabilities B/H ratio. Curves of the utilization factors as ranging from 9 to 50. functions of permeability were determined. Potors of anisotropic They were first tested in the isotropic alloys were tried. condition and then were treated in a magnetic field to make them Utilization factor curves were again plotted. the basis of the results, recommendations are made about choice of rotor dimensions. When anisotropic magnets are used the increase in utilization of rotor volume is not proportional to the increase in the product B H but is somewhat leas. As the depth from the pole root to the central bore increases the absolute utilization of the magnet increases, at first rapidly and later, when the thickness is greater than half the pole width, considerably slower. Card 3/4

15

5/110/61/000/001/015/023 E194/E455 Selection of the Optimum Parameters of Permanent-Magnet Rotors 40 The following utilization factors of the magnet are then defined: the flux utilization factor; the coercive force magnetization Correct selection of factor; and the energy utilization factor. geometry and grade of alloy should be made with allowance for Accordingly, flux behaviour of the rotor after stabilization. and energy utilization factors after stabilization are also defined. The data required to determine the utilization factors were obtained from the demagnetization curves which were determined experimentally with a flux meter and measuring loop located at the m i Same The curves were obtained in an bottom of the magnet slots. experimental stator, with a sinusoidal mmf wave acting on the magnet, which corresponds quite closely to the operating conditions Tests on magnet geometry were made of the magnet in a machine. with an isoffopic alloy of the following analysis: Ni - 15; S - 0.2; remainder Col- 24; Cu - 3; Ti - 1.5; Nb - 0.1; The main geometrical characteristics are the pole width, A1 - 8;the pole height and the depth from the pole root to the central bore. Tests were made on a great many rotors in which these parameters Card 2/4

45 ---

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OO:

5/110/61/000/001/015/023 E194/E455 Pleshchunov, N.N., Engineer AUTHOR: Selection of the Optimum Parameters of Permanent-Magnet TITLE: Rotors PERIODICAL: Vestnik elektropromyshlennosti, 1961, No.1, pp.46-52 Despite the extensive use of alternators with permanentmagnet excitation, sufficient attention has not yet been paid to the selection of rotor geometry and magnetic material. A This article gives the results of investigations on permanent-magnet rotors and offers recommendations about rotor geometry and It also recommends utilization selection of grade of alloy. factors, which are required for checking the design of alternators. The use of permanent-magnet rotors was investigated experimentally on a large number of magnets to obtain the following relationships: the influence of rotor geometry with a given grade of alloy, and the influence of different grades of alloy with a given rotor Most of the rotors were made of isotropic alloys of the type of Alni and Alnico, However, alloys of the type of Magnico heat-treated in a magnetic field have recently come to be used for these generators, and so magnets of amisotropic alloys were tested, Card 1/4

II.

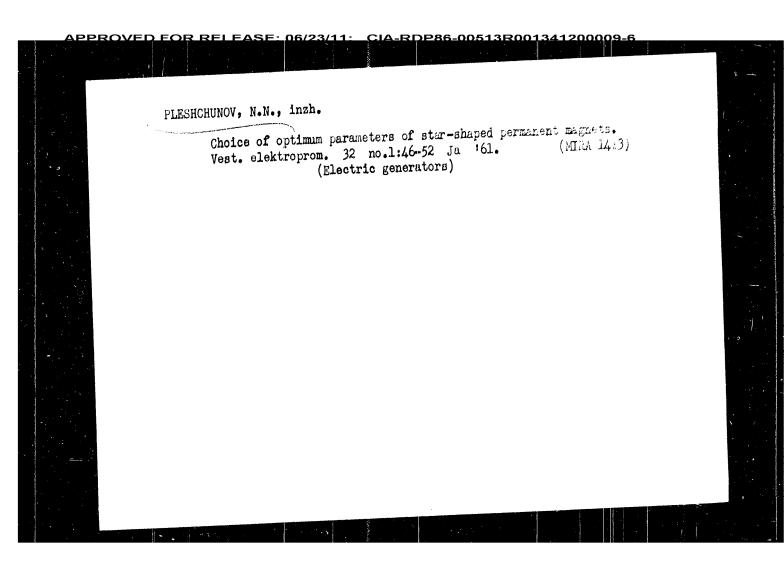
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25 -

AL'PER, N.Ya., kand.tekhn.nauk; PLESHCHUNOV, N.N., inzh. Stabilizing the voltage of generators equipped with permanent magnets.

Vest. elektroprom. 29 no.9:29-34 S '58. (MIRA 11:10)

(Electric generators) (Voltage regulators)



s/196/61/000/009/029/052 Selection of the optimum parameters ... E194/E155

coefficient is the product of the first two. The stabilisation in air was taken as a measure of magnet stabilisation. necessary to determine the utilisation factor were obtained from experimental demagnetisation curves plotted by means of a flux meter and measuring loop placed on the magnet. The utilisation of magnet spiders of isotropic alloys was investigated as a function of their geometry. The tests were made using the commonest pole configuration with parallel edges and the minimum manufacturing radius at the slot bottom of the spider. The utilisation of unstabilised magnets of isotropic alloys increases with increasing depending upon the properties of the magnetic alloys. This is probably to be explained by the more complete magnetisation of the rolume of magnets of lower coercive force. With increasing µ the utilisation of stabilised magnets decreases because magnets with low scersive force are subject to marked demagnetisation during stabilisation. The use of magnets with very low value of u is somewhat impaired because of difficulties in magnetisation, and this is particularly marked with increase in the number of poles and in the pole height. In stabilised magnets of

Card 2/3

5/196/61/000/009/029/052 E194/E155

Plashchunov, N.N. AUTHOR:

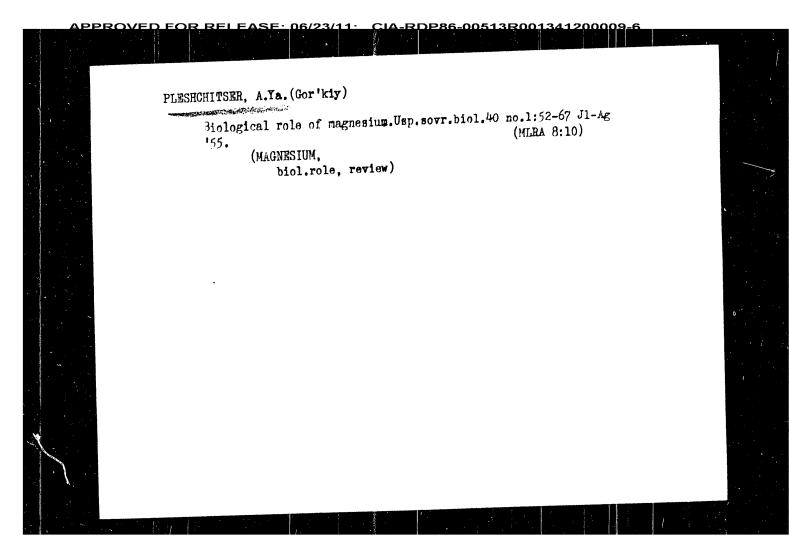
Selection of the optimum parameters of permanent-TITLE:

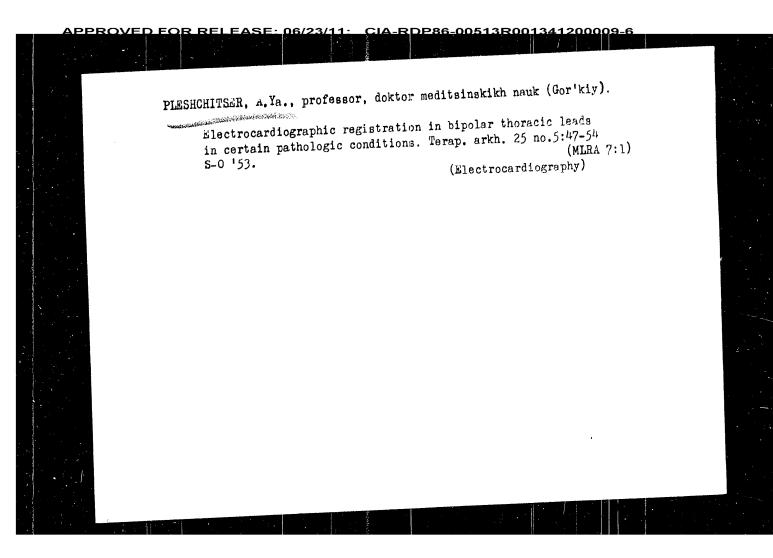
magnet spiders

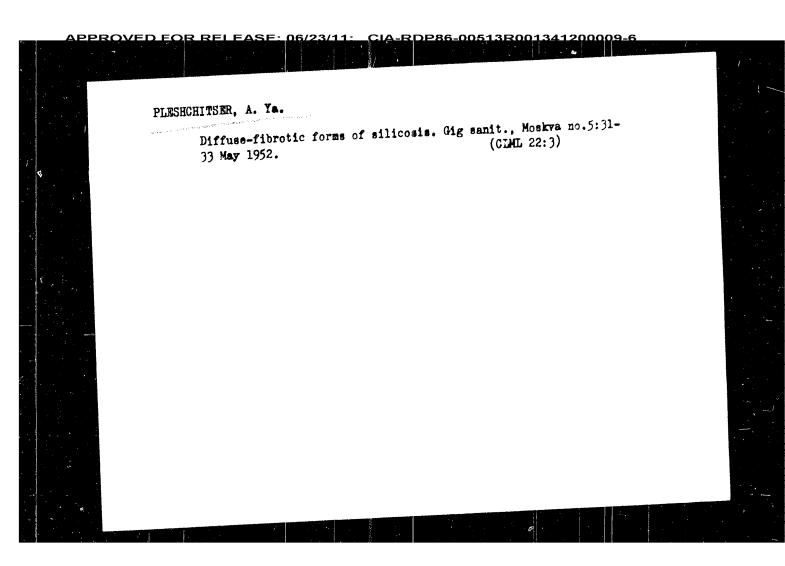
PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.9, 1961, 23, abstract 91 154 (Vestn. elektroprom-

sti, no.1, 1961, 46-52)

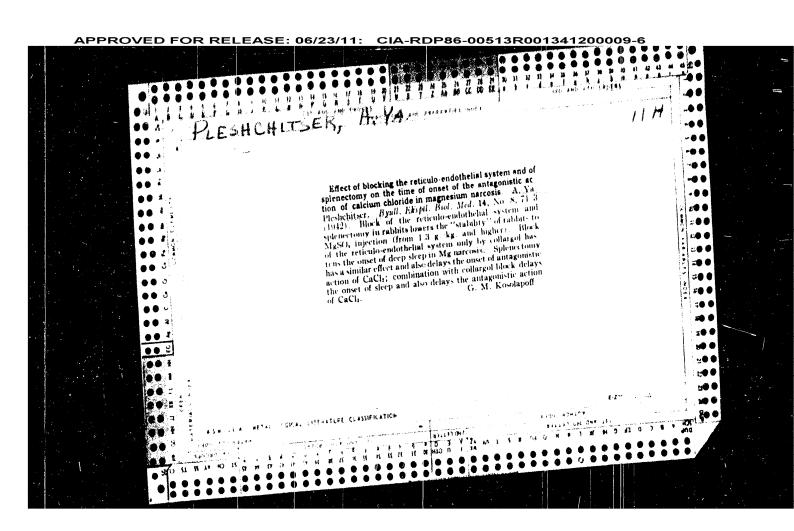
Results are given of an investigation of magnet spiders on the basis of which recommendations are made for selection of optimim geometry and grade of alloy and also of utilisation factors necessary for check calculations of synchronous generators. A relationship is established between the utilisation of magnets of different geometry using a given grade of alloy and of magnets with different grades of alloy of given geometry. The magnets were first investigated in the isotropic condition and then, after treatment in a magnetic field, in the anisotropic condition. The degree of utilisation of the magnets was assessed and they were compared with one another in respect of the following utilisation factors: flux; magnetising force: energy. The latter card 1/3

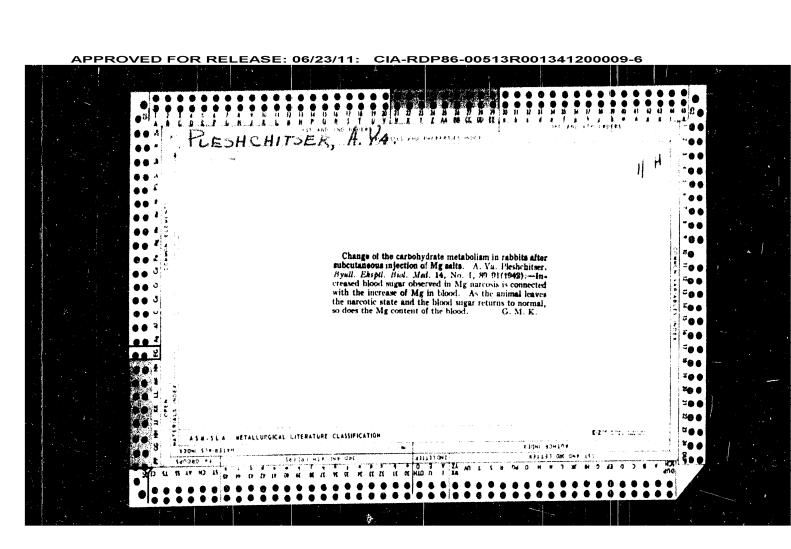






PLESHCHITSER, A. Ya.; GOLUBITSKAYA, N. N. Modification of blood viscosity in vitamin C deficiency and in certain other states. Klin. med., Moskva 29 no.8:82 Aug 1951. (CLML 20:11) 1. Prof. Pleshchitser.

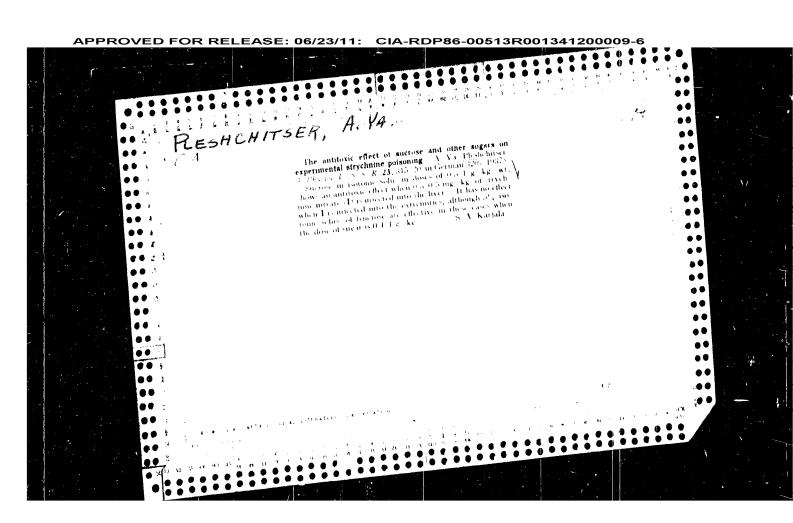




A method for the determination of the relegative is thought in Determination of the relegative in the religious in the relegative in the relegat

Changes in the validity of the flow of blood in the leasest circulation of mischelland of mische

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200009-6 PLESHCHITSER, A. VA. /, H The velocity of blood circulation in the lesser circulatory system of rabbits after parenteral injection of magnesium sulfate. A. Va. Pleshchitser. J. Physiol. (U. S. S. R.) 25, 150-3 (in German 153) (1938). The subcutrance injection of 1.5 g./kg. body wt. of MgSO₄ into rabbits decreases the velocity of blood circulation slightly. The injection of 1.5-2.0 cc. of 10% CaCL gave variable results. **:0 6 10** 0 **ø● ● .**♥ ♦ **.00** ,e • ુ ૭ ● **u** ● ● ASM SEA METALLURGICAL LITERATURE CLASSIFICATION 200 # 0 3 Y



PIESHCHITSER, A. Ya

M.D. Ch. Res. Lab. Occupational Diseases,

People's Commissariat Public Health, Tartar

ASSR, -1939-42
Mbr., Cjair Labour Hygiene, Kakan Med. Inst., -1942-.

"On the Action of Magnesium Salts upon the Cardiovascular System," Farmakol. i Toksikol., 2, No. 2, 1939;

"Changes in the Carbohydrate Metabolism upon Subcutaneous Injection of Mg Salts to Rabbits," ibid., 4,

No. 2, 1941;

"The Effect of Block of the Reticul-Endothelial System

PLESHCHINCKLY, M. I., Cand Riol Del (diss) -- "The effect of the sectral nervols system on the transmission time of excitation from a motor nerve to a skeletal muscle". Kazan', 1959. 17 pp (Min Higher and Inter Spec Whoe MSPER, Mazan' Order of Shor Red Banner State W im W. I. Hilyanov-Lenin), 150 copies (Ki, No 10, 1560, 128)

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10, p 288 (USSR)

AUTHORS: Bulygin, V. Ya., Pleshchinskiy, B. I.

Model Dr. Gonstration of Oil Explusion by Laterally Applied Water (Modelirovaniye vytesneniya krayevoy vodoy nefti)

PERIODICAL: Uch. zap. Kazansk. un-ta, 1956, Vol 115, Nr 5, pp 41-44

ABSTRACT: Bibliographic entry

Card 1/1

SOV/124-57-5-5812

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 5, p 111 (USSR)

AUTHORS: Bulygin, V. Ya., Pleshchinskiy, B. I.

TITLE: Analog Simulation of Oil Displacement by Edge Water (Modelirovaniye vytesneniya krayevoy vodoy nefti)

PERIODICAL: Uch. zap. Kazansk. un-ta, 1956, Vol 116, Nr 5, pp 41-44

ABSTRACT: A concise description is given of the experiments performed in a slotshaped test-trough simulation of the motion of the interface boundary
between two liquids. The experimental conditions required for the
analogy were simulated so as to correspond to the full-scale conditions. The porous medium was represented by crushed glass. The
inner region bounded by a wire-mesh separator was permeated by a
inner region bounded by a mire-mesh separator was permeated by a
mixture of kerosene and a-monobromnaphthalene, the outer region
was filled with colored water. The experiment was photographically
recorded. Photographs for the working of one well and of two wells
are included. Bibliography: 10 references.

A. P. Shkirich

Card 1/1

SOV/124-57-4-4780

A Photoelasticity Method for the Investigation of Slopes and Drains

distances from the edge of the drain. The above-mentioned investigations made it possible for the authors to recommend optimum parameters for canals and drains to avoid the danger of a collapse of their edges during excavation by machines equipped with caterpillar treads. Bibliography: 19 references.

B. M. Zuyev

Card 2/2

SOV:124-57-4-4780

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 130 (USSR)

AUTHORS: Grigor'yev, A.M., Bulygin, V. Ya., Pleshchinskiy, B.I.

A Photoelasticity Method for the Investigation of Slopes and Drains TITLE:

(K issledovaniyu otkosov i dren metodom fotouprugosti)

PERIODICAL: Tr. Kazansk. khim.-tekhnol. in-ta, 1955, Nr 19-20, pp 145-154

ABSTRACT: The paper adduces data on the influence of the geometrical parameters of slopes and the depths of drains on the character of the stress distribution therein. The investigations were made by the photoelastic method. The models for the investigations were prerized from photoelastic materials of the IM-44 type. Embankment slopes of canals 1000 mm deep were model-tested with a variation in the angle of the slope from 30° to 90° in increments of 5°. Relationships of the bearing capacity of the canal in terms of the change of its depth with a constant slope angle φ = 45° were obtained. Rectangular section drains, having parameters that varied with height, were also investigated. The model of a circular widening 300 mm in diameter was

simulated at the bottom of the drain. The load was applied in the form of the distributed pressure of a caterpillar model at various Card 1/2

<u> APPROVED FOR REL FASE: 06/23/11: __CIA-RDP86-00513R001341200009-6</u> KIRYUKHIN, L.G.; PLESHCHEYEV, I.S. Tectonics and the prospects for finding gas and oil in the Nynsualmas group of structures in the Northern Ustyurt. Geol. (河形 17:9) nefti i gaza 8 no.5:17-21 Ny 164. 1. Aerogeologicheskaya ekspeditsiya No.11 Vsesojuznogo gerojeologicheskogo tresta Ministerstva geologii i okhrany nedr SSSR.

